350/1 PUBL 359 350 MARCH 1973

ACTON RESEARCH CORPORATION

BOX 304 / 525 MAIN STREET / ACTON, MASSACHUSETTS 01720 / (617) 263-3721

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Optical Coatings/Replica Optics/Vacuum UV Test Facilities

ARC PRODUCT DATA NO. 220

Optical components for the vacuum UV region

Optical components specifically designed for optimum efficiency in the vacuum UV region are now available from Acton Research Corporation.

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GROUP 250

FRONT SURFACE, CONCAVE SPHERICAL MIRRORS

Dia. (Inches)	Radius of Curvature (Meters)	Catalog No.	Price
½	0.25	C-220-1C	$100.00
½	0.50	C-220-2C	$100.00
½	1.0	C-220-3C	$100.00
½	2.0	C-220-4C	$100.00
½	3.0	C-220-5C	$100.00
½	4.0	C-220-6C	$100.00
¾	0.25	C-220-7C	$105.00
¾	0.50	C-220-8C	$105.00
¾	1.0	C-220-9C	$105.00
¾	2.0	C-220-10C	$105.00
¾	3.0	C-220-11C	$105.00
¾	4.0	C-220-12C	$105.00
1	0.25	C-220-13C	$110.00
1	0.50	C-220-14C	$110.00
1	1.0	C-220-15C	$110.00
1	2.0	C-220-16C	$110.00
1	3.0	C-220-17C	$110.00
1	4.0	C-220-18C	$110.00

Dia. (Inches)	Radius of Curvature (Meters)	Catalog No.	Price
1½	0.25	C-220-19C	$116.00
1½	0.50	C-220-20C	$116.00
1½	1.0	C-220-21C	$116.00
1½	2.0	C-220-22C	$116.00
1½	3.0	C-220-23C	$116.00
1½	4.0	C-220-24C	$116.00
2	0.25	C-220-25C	$125.00
2	0.50	C-220-26C	$125.00
2	1.0	C-220-27C	$125.00
2	2.0	C-220-28C	$125.00
2	3.0	C-220-29C	$125.00
2	4.0	C-220-30C	$125.00
3	0.25	C-220-31C	$185.00
3	0.50	C-220-32C	$185.00
3	1.0	C-220-33C	$185.00
3	2.0	C-220-34C	$185.00
3	3.0	C-220-35C	$185.00
3	4.0	C-220-36C	$185.00

SPECIFICATIONS

Coating - Al + MgF_2 for optimum reflectance below 2000A
Material - Fused Silica, Pyrex, Cer-Vit
Surface Finish - Laser grade for minimum light scattering
Sphericity - Within 1/10 wavelength 5461A
Back Surface - Ground Flat

FRONT SURFACE, FLAT MIRRORS

Size (Inches)	Thickness (Inches)	Catalog No.	Price
¾ Dia.	1/4	A-220-1D	$100.00
1 Dia.	1/4	A-220-2D	$105.00
1½ Dia.	3/8	A-220-3D	$115.00
2 Dia.	3/8	A-220-4D	$120.00
3 Dia.	1/2	A-220-5D	$180.00
5 Dia.	7/8	A-220-6D	$425.00

Size (Inches)	Thickness (Inches)	Catalog No.	Price
¾ x ¾	1/4	B-220-1R	$120.00
1 x 1	1/4	B-220-2R	$145.00
1½ x 1½	3/8	B-220-3R	$260.00
2 x 2	1/2	B-220-4R	$285.00
3 x 3	3/4	B-220-5R	$350.00
5 x 5	1-3/8	B-220-6R	$750.00

SPECIFICATIONS

Coating - Al + MgF_2 for optimum reflectance below 2000A
Material - Fused Silica, Pyrex, Cer-Vit
Surface Finish - Laser grade for minimum light scattering
Flatness - Front surface flat to within 1/10 wavelength 5461A
Back Surface - Ground Flat

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O.L.

Polished and Calibrated Vacuum UV Windows and Cut-Off Filters

Available crystals range from LiF with a transmission limit of approximately 1040A to synthetic fused quartz with a cut-off at approximately 1650A

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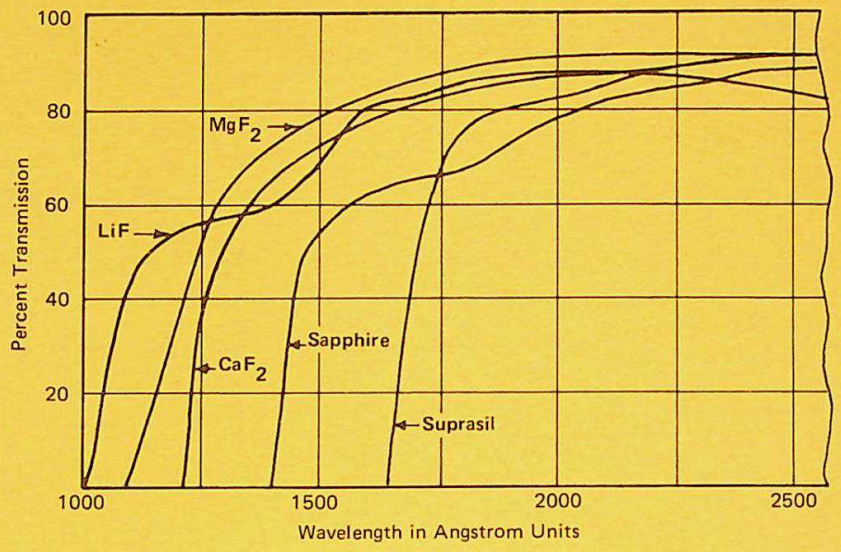
GROUP 256



LiF

Size (Inches)	Thickness (mm)	Catalog No.	Price
½	1.0	A-220-1E	$125.00
½	2.0	A-220-2E	$125.00
1	1.0	A-220-3E	$150.00
1	2.0	A-220-4E	$150.00
1½	2.0	A-220-5E	$190.00
1½	3.0	A-220-6E	$190.00
2	2.0	A-220-7E	$220.00

MgF_2

Size (Inches)	Thickness (mm)	Catalog No.	Price
½	1.0	A-220-1F	$135.00
½	2.0	A-220-2F	$135.00
1	1.0	A-220-3F	$175.00
1	2.0	A-220-4F	$175.00
1½	2.0	A-220-5F	$220.00
1½	3.0	A-220-6F	$230.00
1½	4.0	A-220-7F	$235.00

CaF_2

Dia. (Inches)	Thickness (mm)	Catalog No.	Price
½	1.0	A-220-1G	$120.00
½	2.0	A-220-2G	$120.00
1	1.0	A-220-3G	$145.00
1	2.0	A-220-4G	$145.00
1½	2.0	A-220-5G	$170.00
1½	4.0	A-220-6G	$170.00
2	2.0	A-220-7G	$200.00
2	4.0	A-220-8G	$210.00

Sapphire

Dia. (Inches)	Thickness (mm)	Catalog No.	Price
½	0.5	A-220-1H	$150.00
½	1.0	A-220-2H	$175.00
1	0.5	A-220-3H	$175.00
1	1.0	A-220-4H	$175.00
1½	1.0	A-220-5H	$275.00
1½	2.0	A-220-6H	$275.00
2	1.0	A-220-7H	$425.00
2	2.0	A-220-8H	$425.00

Also available from Acton Research Corp. are:

High reflectance vacuum UV coatings
Anti-reflection vacuum UV coatings
Terphenyl coatings for use as fluorescent wavelength converters
High efficiency MgF_2 photocathode coatings for the extreme ultraviolet
Vacuum UV laser reflectors and coatings

All prices subject to change without notice.

ACTON RESEARCH CORPORATION Box 304/525 Main Street/Acton, Massachusetts 01720/(617) 263-3721

Represented By: McPHERSON INSTRUMENT CORP., 530 Main Street, Acton, Ma. 01720 Tel: (617) 263-7733

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